

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of reproducing auxiliary contents data in a recording medium player, the method comprising:

receiving, by the recording medium player and from an external server, playback control information for the auxiliary contents data, the auxiliary contents data related to audio/video (A/V) recorded on a recording medium, the playback control information including

address information for indicating a location of the auxiliary contents data, and
attribute information, the attribute information including separate values for
indicating an image type and an aspect ratio of the auxiliary contents data, the image type
being one of “square” and “non-square” and the aspect ratio being one of 4:3 and 16:9;

for indicating image types;
aspect ratio information for the auxiliary contents data;
an image type for indicating whether an image for presenting the auxiliary
contents data is square or not, and

the aspect ratio information for indicating whether an aspect ratio of the image for
presenting the auxiliary contents data is either 4:3 or 16:9;

storing, by the recording medium player, the playback control information in one region among at least two logically divided regions of a buffer memory;

checking, by the recording medium player, the attribute information stored in the one region of the buffer memory to determine a presentation method for the auxiliary contents data;
and

presenting, by the recording medium player, the auxiliary contents data according to the determined presentation method,

wherein the step of presenting includes outputting the auxiliary contents data in conjunction with the A/V data reproduced from the recording medium using the image type and the aspect ratio included in the playback control information.

2-3. (Canceled).

4. (Previously Presented) The method set forth in claim 1,

wherein the playback control information is further pre-recorded on the recording medium, and

wherein the receiving step comprises retrieving the playback control information from the recording medium.

5. (Original) The method set forth in claim 1, wherein the auxiliary contents data is organized into one or more files.

6. (Previously Presented) The method set forth in claim 5, wherein the attribute information is included in names of the files containing the auxiliary contents data.

7. (Previously Presented) The method set forth in claim 5, wherein the attribute information is included in meta tag information in a header area of the files containing the auxiliary contents data.

8. (Original) The method set forth in claim 5, wherein the attribute information is included in tag information arbitrarily positioned within the files containing the auxiliary contents data as image tag information.

9. (Canceled).

10. (Previously Presented) The method set forth in claim 1, wherein the presenting step comprises presenting the auxiliary contents data as square images if the image types indicate the images are square.

11. (Previously Presented) The method set forth in claim 1, wherein the presenting step comprises presenting the auxiliary contents data as 4:3 or 16:9 according to the aspect ratio.

12. (Previously Presented) The method set forth in claim 1,
wherein the receiving step includes receiving the auxiliary contents data from the recording medium or the external server, and
wherein the storing step includes storing the auxiliary contents data from the recording medium or the external server into the buffer memory.

13. (Previously Presented) The method set forth in claim 1, wherein the step of presenting includes outputting the auxiliary contents data in conjunction with the A/V data reproduced from an interactive recording medium.

14. (Currently Amended) An recording medium player for reproducing auxiliary contents data, the recording medium player comprising:

a receiving unit configured to receive a playback control information for the auxiliary contents data, the auxiliary contents data related to audio/video (A/V) data recorded on a recording medium, the playback control information including

address information for indicating a location of the auxiliary contents data, and
attribute information, the attribute information including separate values for
indicating an image type and an aspect ratio of the auxiliary contents data, the image type
being one of “square” and “non-square” and the aspect ratio being one of 4:3 and 16:9;
for indicating image types;

aspect ratio information for the auxiliary contents data;
an image type for indicating whether an image for presenting the auxiliary
contents data is square or not, and

the aspect ratio information indicating whether an aspect ratio of the image for
presenting the auxiliary contents data is either 4:3 or 16:9;

a buffer memory logically divided in at least two regions in which any one region is configured to store the playback control information; and

a controller configured to check the attribute information stored in the region of the buffer memory to determine a presentation method for the auxiliary contents data, and to control a presentation of the auxiliary contents data according to the determined presentation method,

wherein the buffer memory is configured to store the auxiliary contents data received from the receiving unit according to a control of the controller, and

wherein the controller is configured to control the presentation of the auxiliary contents data in conjunction with the A/V data reproduced from the recording medium using the image type and the aspect ration included in the playback control information.

15. (Previously Presented) The recording medium player set forth in claim 14, wherein the playback control information is pre-recorded on the recording medium, and

wherein the receiving unit is configured to retrieve the playback control information from the recording medium.

16. (Previously Presented) The recording medium player set forth in claim 14, wherein the auxiliary contents data is organized into one or more files.

17. (Previously Presented) The recording medium player set forth in claim 16, wherein the attribute information is included in names of the files containing the auxiliary contents data.

18. (Previously Presented) The recording medium player set forth in claim 16, wherein the attribute information is included in meta tag information in a header area of the files containing the auxiliary contents data.

19. (Previously Presented) The recording medium player set forth in claim 16, wherein the attribute information is included in tag information arbitrarily positioned within the files containing the auxiliary contents data as image tag information.

20. (Previously Presented) The recording medium player set forth in claim 14, wherein the controller is configured to control the presentation of the auxiliary contents data as square images if the image types indicate the images are square.

21. (Previously Presented) The recording medium player set forth in claim 14, wherein the controller is configured to control the presentation of the auxiliary contents data as 4:3 or 16:9 according to the aspect ratio.

22. (Previously Presented) The recording medium player set forth in claim 14, wherein the auxiliary contents data is pre-recorded on an interactive recording medium or provided by an external server through a communication network, and

wherein the buffer memory is configured to store the auxiliary contents data according to a control of the controller.

23. (Previously Presented) The recording medium player set forth in claim 14, wherein the controller is configured to control the presentation of the auxiliary contents data in conjunction with the A/V data reproduced from the recording medium.

24. (Previously Presented) The method set forth in claim 1, wherein the playback control information is provided all at once, and

wherein the receiving step includes receiving the playback control information at once.

25. (Previously Presented) The method set forth in claim 1, wherein the playback control information is divided into a plurality of pieces and provided one by one when need, and wherein the receiving step includes receiving the playback control information one by one.

26. (Previously Presented) The recording medium player set forth in claim 14, wherein the playback control information is provided all at once, and wherein the receiving unit is configured to receive the playback control information at once.

27. (Previously Presented) The recording medium player set forth in claim 14, wherein the playback control information is divided into a plurality of pieces and provided one by one when need, and wherein the receiving unit is configured to receive the playback control information one by one.